

WHAT IS CLAIMED IS:

1. An ink cartridge for an ink-jet recording apparatus comprising:

a container body having an ink supply port;

5 a storage element disposed on said container body;

electrodes to be contacted with contacts provided in the recording apparatus accommodating the container body therein; and

10 a positioning system which is formed in the vicinity of the electrodes and is adapted to engage a positioning member of said recording apparatus.

15 2. The ink cartridge according to claim 1, wherein the positioning system includes at least one recess that has an opening at a leading end thereof in an ink cartridge insertion direction, and that is engageable with the positioning member formed as a protrusion.

3. The ink cartridge according to claim 2, wherein the at least one recess includes a pair of recesses located opposite from each other with respect to the electrodes.

20 4. The ink cartridge according to claim 2, wherein the recess has an upper end wall to be contacted with an upper end of the protrusion.

25 5. The ink cartridge according to claim 4, wherein the wall extends in parallel to a direction in which the electrodes are arranged.

6. The ink cartridge according to claim 4, wherein a contact area between the wall and the positioning member is wider than a width of an area in which the electrodes are arranged.

7. The ink cartridge according to claim 1, wherein the positioning system includes a blind hole opened at a bottom surface of the container body.

8. The ink cartridge according to claim 1, wherein the storage element and the electrodes are mounted on a same flexible cable.

9. An ink cartridge for an ink-jet recording apparatus, comprising:

a container body having an ink supply port;  
electrodes which are to be contacted with contacts provided in the recording apparatus and which are formed in a side where the ink supply port is provided;

a storage element provided to a predetermined area of the container body and connected to the electrodes; and

a positioning recessed portion open to the side where the ink supply port is provided, and engageable with a protruding portion formed in the recording apparatus.

10. The ink cartridge according to claim 9, wherein a circuit board having the electrodes is accommodated in a recessed portion formed in said container body.

11. The ink cartridge according to claim 9, wherein said positioning recessed portion is formed at a position below

a circuit board having the electrodes.

12. The ink cartridge according to claim 9, wherein a pair of the positioning recesses are provided to be located opposite from each other with respect to the electrodes.

5 13. The ink cartridge according to claim 9, wherein said container body has a recessed portion for accommodating a circuit board having the electrodes, and has a wall which defines said recessed portion and is brought into contact with a top surface of said protruding portion.

10 14. The ink cartridge according to claim 13, wherein the wall extends in parallel to a direction in which the electrodes are arranged.

15 15. The ink cartridge according to claim 13, wherein a contact area between the wall and the protruding portion is wider than a wide of an area where the electrodes are arranged.

16. The ink cartridge according to claim 9, wherein the storage element is mounted on a circuit board.

20 17. The ink cartridge according to claim 9, wherein a flexible cable is connected to a circuit board having the electrodes, and the storage element is connected to the electrodes through the flexible cable.

18. The ink cartridge according to claim 17, wherein the storage element is mounted on the flexible cable.

25 19. The ink cartridge according to claim 9, wherein the storage element and the electrodes are mounted on a same flexible

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